



First Named

Inventor : Roger Lee Hipwell, Jr.

Appln. No. : 10/650,392

Filed : August 28, 2003

Title : IMPROVED MAGNETIC MICROACTUATOR FOR DISC
DRIVES WITH INTEGRATED HEAD CONNECTIONS AND
LIMITERS

Docket No. : I69.12-0576

Group Art Unit: 2834

Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I CERTIFY THAT THIS PAPER IS BEING SENT BY U.S. MAIL,
FIRST CLASS, TO THE ASSISTANT COMMISSIONER FOR
PATENTS, ALEXANDRIA, VA 22313, THIS 7th DAY OF
JANUARY, 2004.

Alana Briggs
PATENT ATTORNEY

Sir:

The enclosed PTO Form-1449 lists patents and publications submitted pursuant to 37 C.F.R. 1.97. Copies of the patents or publications are enclosed as necessary [if application filing date is after June 30, 2003, copies of U.S. patents and application publications are not required].

TIME OF FILING

The Information Disclosure Statement is being filed:

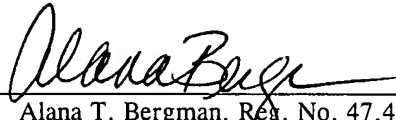
1. X with the application or within three months of the filing date of a national application (other than a continued prosecution application under 37 C.F.R. 1.53(d)) or date of entry into the national stage of an international application or, to the best of the undersigned's knowledge, before the mailing date of a first Office action on the merits or a first office action after the filing of a request for continued examination under 37 C.F.R. 1.114, whichever event occurs last. In accordance with 37 C.F.R. 1.97(b), no certification or fee is required.
2. after the time period specified in paragraph 1 above, but, to the best of the undersigned's knowledge, before the mailing date of a final action under 37 C.F.R. 1.113 or notice of allowance under 37 C.F.R. 1.311, or an action that otherwise closes prosecution of the application. In accordance with 37 C.F.R. 1.97(c), submitted herewith is:
(check either A or B below)
A. a statement as specified in 37 C.F.R. 1.97(e), no fee is required.
B. the fee set forth in 37 C.F.R. 1.17(p) for submission of an Information Disclosure Statement under 37 C.F.R. 1.97(c).

3. — after the mailing date of either a final action under 37 C.F.R. 1.113 or a Notice of Allowance under 37 C.F.R. 1.311, whichever occurs first, but on or before payment of the issue fee. Applicant petitions for consideration of this Information Disclosure Statement pursuant to 37 C.F.R. 1.97(d)(2). Applicant submits herewith:
- A. a statement as specified in 37 C.F.R. 1.97(e); and
 - B. the fee set forth in 37 C.F.R. 1.17(p).

Respectfully submitted,

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ATB:kmm

FORM PTO-1449

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LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
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Roger Lee Hipwell, Jr.Filing Date:
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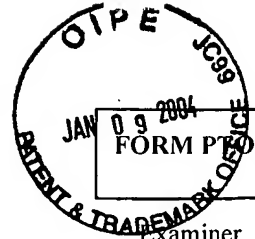
U.S. PATENT DOCUMENTS

Examiner Initials	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents
	5,189,578	02/23/93	Mori et al.
	5,276,573	01/04/1994	Harada, et al.
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	5,364,742	11/15/94	Fan et al.
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	5,920,441	07/06/99	Cunningham et al.

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Examiner Initials	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents
	5,936,805	08/10/1999	Imaino
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Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Translation Yes No
JP 63-122069	05/26/1988	Konishi	Yes (abstract only)
EP 0 412 221 B1	11/28/1989	Birtzer	Yes
JP 02-263369	10/26/1990	Marutomo, et al.	Yes (abstract only)
JP 04-134681A	05/08/1992	Takaharu	Yes (abstract only)
JP 04-368676A	12/21/1992	Haruaki	Yes (abstract only)
JP 07-085621A	03/31/1995	Wakatsuki	Yes (abstract only)
JP 05-094682A	04/16/1993	Onishi, et al.	Yes (abstract only)
JP 06-020412A	01/28/1994	Takahisa	Yes (abstract only)

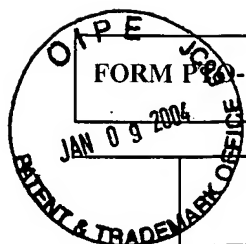
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Batch Transfer of Microstructures Using Flip-Chip Solder Bump Bonding" by Angah Signh et al.
	"Batch Micropacking By Compression-Bonding Wafer-Wafer Transfer" by Micheal M. Maharbiz et al.
	"Silicon Micromachined Electromagnetic Microactuators for Rigid Disk Drives" by Tang et al, <u>IEEE Transactions on Magnetics</u> , Vol. 31, No. 6, November 1995
	"Magnetic Recording Head Positioning at Very High Track Densities Using a Microactuator-Based, Two-Stage Servo System" by Fan et al., <u>IEEE Transactions on Industrial Electronics</u> , Vol. 42, No. 3, June 1995

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"Micro Electrostatic Actuators in Dual-Stage Disk Drives with High Track Density" by Tang et al., IEEE Transactions on Magnetics, Vol. 32, No. 5, September 1996

"Piezoelectric Microactuator Compensating for Off-Track Errors in Magnetic Disk Drives" by Imamura et al, Advance Information Storage Systems, Vol. 5, pp 119-126.

"A Dual-Stage Magnetic Disk Drive Actuator Using a Piezoelectric Device for a High Track Density" by Mori et al., IEEE Transactions on Magnetics, Vol. 27, No. 6, November 1991.

"Dynamic Loading Criteria for 3-1/2 Inch Inline HDD Using Multilayer Piezoelectric Load/Unload Mechanism" by Kajitani et al., IEEE Transactions on Magnetics, Vol. 27, No. 6, November 1991

"Design, Fabrication, and Testing of Silicon Microgimbals for Super-Compact Rigid Disk Drives" by Temesvary et al., Journal of Microelectromechanical Systems, Vol. 4, No. 1, March 1995

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